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10/608,196

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EXAMINER

PATEL, DHIRUBHAIR

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/608,196	<b>Applicant(s)</b> YOSHIDA ET AL.	
	<b>Examiner</b> DHIRU R. PATEL	<b>Art Unit</b> 2831	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE \_\_\_\_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☐ Claim(s) \_\_\_\_ is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____.                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____.  | 6) <input type="checkbox"/> Other: ____.                          |

### ***Drawings***

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, a plurality of grooves recited in claim 1, the second insulative sheet is formed with a plurality of grooves recited in claim 4, a plurality of grooves recited in claim 15 and said wire fixing portions each including a plurality of grooves recited in claim 17 must be shown or the feature(s) canceled from the claim(s). The examiner suggests showing reference number for a plurality of grooves for claims 1, 4, 15 and 17. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

2. The drawings are objected to under 37 CFR 1.83(a) because they fail to show the second insulative sheet is formed with a plurality of grooves which receive the second electric wires as claimed in claim 4 and described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Specification***

3. The amendment filed 01/25/08 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows:

In claim 1 lines 10-11, the limitations “ the wiring member comprises a plurality of grooves .... or one of the second electric wires” is not adequately supported by the original specification.

In claim 21 lines 1-3, the limitations “the wiring member comprises a plurality of grooves .... or one of the second electric wires” is not adequately supported by the original specification.

**The applicant is required to cancel the claim or provide a reasonable explanation of why they feel the original specification supports the subject matter as disclosed in claims 1 and 21. Applicant must refer to the specification by page and lines number in the original specification and to the drawing, if any, by reference characters to provide support for claims 1 and 21.**

**The failure to meet the written description requirement of 35 U.S.C. 112, first paragraph, commonly arises when the claims are changed after filing to either broaden or narrow the breadth of the claim limitations, or to alter a numerical range limitation or to use claim language which is not synonymous with the terminology used in the original disclosure to comply with the written description requirement of 35 U.S.C. 112, para. 1, or to be entitled to an earlier priority date or**

**filing date under 35 U.S.C. 119, 120, or 365(c), each claim limitation must be expressly, implicitly, or inherently supported in the originally filed disclosure. Please note that inventor is responsible for providing element number for each claimed invention as well as for providing page number, figure number, element number, and column with lines number in the original specification for claims 1-21 to verify and in compliance with statute 35 USC 112 first paragraph defined in MPEP and Please note that the claim or claims (1 and 21) must conform to the invention as set forth in the remainder of the specification and the terms and phrases used in the claims (1 and 21) must find clear support or antecedent basis in the description so that the meaning of the terms in the claims may be ascertainable by reference to the description, see MPEP 608.01 (d)(1).**

Applicant is required to cancel the new matter in the reply to this Office Action.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 15-16 and 18-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 15 lines 3-4, the limitations “ the plurality of grooves ” is confusing and unclear in light of the specification because it is not clear that the plurality of grooves of claim 1 line 10 or the plurality of grooves of claim 15 line 2.

In claim 15 lines 4-5, the limitations “ the plurality of grooves ” is confusing and unclear in light of the specification because it is not clear that the plurality of grooves of claim 1 line 10 or the plurality of grooves of claim 15 line 2?.

In claim 18 line 2, the limitations “ corresponding grooves ” is confusing and unclear in light of the specification because it is not clear that corresponding grooves of claim 1 line 10 or a plurality of grooves of claim 17 lines 3-4?.

In claim 18 line 4, the limitations “ corresponding grooves ” is confusing and unclear in light of the specification because it is not clear that corresponding grooves of claim 1 line 10 or a plurality of grooves of claim 17 lines 3-4?.

### **Claim Rejections - 35 USC § 102**

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action: A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-3, 5-7, 11, 14 and 20 and as best understood, are rejected under 35 U.S.C. § 102(b) as being anticipated by Genovese et al (4,201,436).

Genovese et al disclose:

Regarding claim 1, a circuitry assembly, comprising: a plurality of first electric wires 31, forming a first wire group (see fig 2, and entire column 3); a plurality of second electric wires 41, intersecting the first electric wires (see fig 2 and entire columns 1-4), while forming a second wire group (see fig 2); a first insulative sheet 33, disposed between the first wire group and the second wire group (see figs 2-3 and 6 and entire columns 1-3); and a wiring member 20, which holds both of the first electric wires and the second electric wires (see figs 2 -3 and 5-6 and entire columns 3-4), wherein said wiring member holds the first wire group in a first direction and the second wire group in a second direction which intersects the first direction such that the first wire group intersects the second wire group (see fig 2 and entire columns 1-4), wherein the wiring member comprises a plurality of grooves 24 each partly holding one of the second electric wires (see fig 2 and entire column 3).

Regarding claim 2, wherein the first insulative sheet is formed with at least one opening 11 located corresponding to at least one intersecting point at which one of the first electric wires and one of the second electric wires are electrically connected (see figs 4-6 and column 4 lines 10-30).

Regarding claim 3, further comprising a second insulative sheet 43, disposed between the wiring member and the second wire group (see fig 2 and entire column 3).



Regarding claim 5, wherein the first insulative sheet is provided as a flexible film (see column 1 lines 50-55 and column 3 lines 15-20).

Regarding claim 6, wherein the first insulative sheet is comprised of either polyethylene terephthalate (see column 1 lines 50-55).

Regarding claim 7, wherein at least one of the first electric wires and the second electric wires is plated with tin (see column 3 lines 25-26 and please note that tin is an inherent properties of wires).

Regarding claim 11, wherein the first direction is perpendicular to the second direction (see fig 2, column 1 lines 60-68 and entire column 3).

Regarding claim 14, wherein the wiring member holds the first electric wires and the second electric wires at a peripheral end portion of the wiring member at which the first wire group does not intersect the second wire group (see fig 2).

Regarding claim 20, wherein the first insulative sheet is formed with a plurality of openings 11, such that each opening of the first insulative sheet provides electrical connection between a different pair of wires of the first wire group and the second wire group (see figs 4-6 and column 4 lines 10-30).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 9-10 as best understood, rejected under 35 U.S.C. 103(a) as being unpatentable over Genovese et al (4,201,436) in view of Nakayama et al (4,818,236). Regarding claim 9, the assembly of Genovese et al disclose all the feature of the claimed invention as shown above, including a casing body 6 (see fig 1 and entire column 2), but fails to disclose a first terminal and a second terminal. Nakayama et al teach the use of a first terminal 11, and a second terminal 12 (see figs 4A, 4B and entire column 3) in order to be directly connectable with other electric elements (see column 2 lines 3-8), such as electrical elements connector, or solenoid (see column 3 lines 60-65). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the assembly of over Genovese et al with a first terminal and a second terminal as taught by Nakayama et al in order to connect the conductors directly with other electric elements, such as electrical elements connector, or solenoid. Regarding claim 10, the modified assembly of Genovese et al disclose all the feature of the claimed invention as shown above, including a cover 10, formed with a plurality of

grooves 14 which respectively receive the first electric wires (see fig 2 and entire column 3 of Genovese et al).

***Allowable Subject Matter***

7. Claims 4, 12-13 and 21 would be allowable if rewritten or amended to overcome and the drawing objection set forth in this Office action.

8. Claims 15-16 and 18-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and the claims the rejection(s) under 35 U.S.C. 112, 2<sup>nd</sup> paragraph, and the drawing objection set forth in this Office action.

9. Claim 21 would be allowable if rewritten to overcome the specification objection, set forth in this Office action.

10. Claim 17 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and the drawing objections.

The following is a statement of reasons for the indication of allowable subject matter:

The primary reasons for the indication of the allowability of claims 4, 12-13, 15-19 and 21 are the inclusion therein, in combination as currently claimed, of the limitation of wherein the **second insulative sheet is formed with a plurality of grooves** which respectively receive the second electric wires (for claims 4, 12 -13 and 21),

and **a rectangular plate body which includes a plurality of grooves** provided at a plurality of side edge portions of the rectangular plate body (for claims 15-16), and **said wire fixing portions each including a plurality of grooves** (for claims 17-19).

The previously listed limitation is neither disclosed nor taught by the prior art of record, alone or in combination.

### ***Conclusion***

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

### ***Response to Arguments***

12. Applicant's arguments with respect to claims 1-3, 5-7, 9-11 and 14-20 have been considered but are moot in view of the new ground(s) of rejection.

### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DHIRU R. PATEL whose telephone number is 571-272-1983. The examiner can normally be reached on M-TH, 6:30 TO 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**/DHIRU R PATEL/  
Primary Examiner, Art Unit 2831**